

106015

October 25, 1961

R E P O R T

SUBJECT: Inspection of Waste Treatment Plant

PARTIES: For Town of Plainville - I. Nevall, L. Dayton of H. Souther Engineering Co.
For MRC - C. Holmberg, D. Russell, P. Fischer

An inspection of our waste treatment plant was conducted this morning with the above-mentioned personnel.

Various questions pertaining to construction of and type of different equipment were asked by I. Nevall.

A tank was treated while they were present. The question was asked as to why Alum was used instead of a chemical with an iron compound such as "Ferri-Floc" or "Ferri-Sol" which I. Nevall thought might be more economical.

Our experience with Ferri-Floc has never been as good as with Alum. This may be due to a low PH. The PH of our treatment usually is between 5.5 to 6.5. If we used a material with a Ferric base the PH would have to be nearer 8.0 to 8.5. This would necessitate the addition of lime to raise our PH.

At the present time the cost of treated water is \$0.001 per gallon using the following figures for labor and material but excluding any cost of power and equipment.

Labor - 1-1/2 hrs. at \$2.40/hr.		\$ 3.60
Chemicals - Alum \$0.055/lb.	Ave. Tank.	
	185#	10.18
Cal. Chloride 0.03/lb.	70#	2.10
Bentonite 0.008/lb.	40#	.32
Total		\$ 15.20

As a tank contains 16,000 gallons this gives an approximate cost of \$0.001 per gallon.

The cost of lime and an iron compound is being investigated and the Lab will run some comparative tests in the near future to see if this cost can be reduced.

I. Nevall asked if our well was still pumping. This was replied to in the affirmative.

Mr. Nevall said in leaving that we had a good plant. He suggested we send a sample of treated effluent to him for further tests.

A sample of same will also be sent to J.E. Gustafson for comparative tests.

P. Fischer
P. Fischer

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Enclosures

JHA
CME
JHO
RLW

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